

OCT 2 8 1977

Docket No. 50-220

Niagara Mohawk Power Corporation
ATTN: Mr. Gerald K. Rhode
Vice President - Engineering
300 Erie Boulevard West
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Distribution

✓Docket
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Gentlemen:

RE: NINE MILE POINT NUCLEAR STATION UNIT NO. 1

By letter dated May 20, 1977, we requested certain specific information concerning your reactor vessel, its materials of construction, and surveillance specimens. Although your letters of July 22, 1977, and August 18, 1977, submitted in response to this request, provided a useful general discussion outlining the adequacy of your surveillance program, and the basis for your belief that the surveillance specimens are reasonably representative of the limiting materials in the reactor vessel beltline region, they do not provide all the specific items of information requested.

This specific information is needed by the staff to verify that the operating limits in your Technical Specifications are in accordance with Appendices G and H to 10CFR50, and to assure that these limits are updated correctly throughout the life of the plant.

It is recognized that new material testing requirements were imposed by Appendices G and H, and therefore some of the material test results requested may not be available. If this is the case for your reactor vessel, please provide the results of the tests that were performed, and estimate the missing information in accordance with the guidance given in Section 5.3.2 of the Standard Review Plan.

As noted in our earlier letter on this subject, recent information indicates that some materials may be affected more by radiation than originally anticipated, leading to uncertainties in toughness properties throughout service life. Without more detailed information, estimates will have to be made on a conservative "worst case" basis. This will most likely result in

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Condition	Control (%)	100 Hz (%)	200 Hz (%)	400 Hz (%)
1	65	65	65	65
2	70	70	68	68
3	75	75	72	70
4	80	78	75	72
5	85	80	75	70

$$\frac{1}{\alpha} \left(\frac{\partial}{\partial t} + \frac{\partial}{\partial x} \right) u = - \frac{1}{\alpha} \left(\frac{\partial}{\partial t} + \frac{\partial}{\partial x} \right) v = - \frac{1}{\alpha} \left(\frac{\partial}{\partial t} + \frac{\partial}{\partial x} \right) w = - \frac{1}{\alpha} \left(\frac{\partial}{\partial t} + \frac{\partial}{\partial x} \right) \theta$$

1. *Chlorophyll a* and *Chlorophyll b* were determined using a spectrophotometer (Shimadzu UV-160U) at 663 nm and 646 nm, respectively. The concentrations were calculated using the following equations: $Chl\ a = 11.84 \times OD_{663} - 2.81 \times OD_{646}$ and $Chl\ b = 21.08 \times OD_{646} - 6.30 \times OD_{663}$ (Morehead and Hendrey 1990).

[illegible][illegible]

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress regularly to ensure that the project is on track.

5. Finally, the fifth step is to evaluate the results of the project. This involves assessing the outcomes against the objectives and goals to determine the effectiveness of the project and identify areas for improvement.

[illegible]

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overly conservative pressure-temperature limits, such as inconveniently high restrictions on the minimum temperature for core criticality.

Accordingly, we reiterate our request that you supply each of the specific items of information listed in the enclosure to our letter of May 20, 1977, and request that such submittal be made within 60 days of receipt of this letter.

Sincerely,

Original signed by

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

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DATE >	10/28/77	10/28/77	10/28/77			

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Yel H. Khan '93 signed

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED